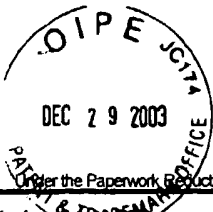


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PTO/SB/08A (10-01)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 1

Complete if Known

Application Number 09/830,223
Filing Date July 13, 2001
First Named Inventor Takahiro NAKAJIMA, et al.
Group Art Unit 1755
Examiner Name James W. Pasterczyk
Attorney Docket Number 11197/5

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	1	US 6,782,935	07-21-1998	Hirt et al.	
	2	US 5,237,042	08-17-1993	Kim et al.	
	3	US 5,554,720	08-18-1996	Weaver et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	16	CN1153185	07-02-1997	Anshan Iron & Steel Engrg coll (CN)		Abst

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

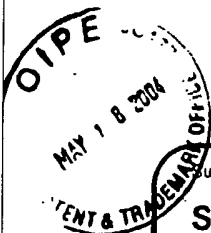
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

Examiner Signature	Pasterczyk	Date Considered	9/2/04
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¹ Unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 1

Complete if Known

Application Number	09/830,223
Filing Date	July 13, 2001
First Named Inventor	Takahiro NAKAJIMA, et al.
Group Art Unit	1755
Examiner Name	James W. Pasterczyk
Attorney Docket Number	11197/5

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
JP	1	US 5,770,682	06/23-1998	Ohara et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
JP	2	JP 9-151242	06-10-1997	SHIMADZU CORP		ABS
	3	JP 9-151243	06-10-1997	SHIMADZU CORP		ABS
	4	JP 9-151244	06-10-1997	SHIMADZU CORP		ABS
	5	JP 60-35023	02-22-1985	KURARAY CO LTD		FULL ENGLISH TRANSLATION
	6	JP 61-101527	10-24-1984	TORAY IND INC		FULL ENGLISH TRANSLATION

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Signature	Pasterczyk	Date Considered	9/2/04
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 2

Complete if Known

Application Number	09/830,223
Filing Date	July 13, 2001
First Named Inventor	T. Nakajima, et al.
Art Unit	1755
Examiner Name	J.W. Pasterczyk
Attorney Docket Number	11197/5

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
JP	1	5,554,720	09-10-1996	Weaver et al.	(Corresponds to CN 1175266)
	2	5,237,042	08-17-1993	Kim et al.	(Corresponds to CN 1067662)
	3	5,782,935	07-21-1998	Hirt et al.	(Corresponds to CN 1154728)
	4	5,512,340	04-30-1996	Goodley	
	5	5,596,069	01-21-1997	Goodley	
	6	5,652,033	07-29-1997	Goodley	
	7	5,674,801	10-07-1997	George	
	8	5,744,572	04-28-1998	Schumann et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ² - Number ³ - Kind Code ⁵ (if known)				
JP	9	JP 2001-131274	05-15-2001	NATL INST OF ADVANCED INDUSTRIAL SCIENCE & TECHNOLOGY METI;; MASUDA TAKASHI;; NAKAYAMA KAZUO		ABS
	101	JP 10-259296	09-29-1998	KURARAY CO LTD		ABS
	11	JP 2001-26639	01-30-2001	TOYOBO CO LTD		ABS
	12	JP 46-40711	12-01-1971	UNITIKA LTD (NIRA)		ABS
	13	JP 5-287064	11-02-1993	TORAY IND INC		ABS
	14	JP 2000-63504	02-29-2000	TORAY IND INC		ABS
	15	JP 2001-278970	10-10-2001	TOYOBO CO INC		ABS
	16	JP 2001-163964	06-19-2001	TOYOBO CO LTD		ABS
	17	JP 2001-131276	05-15-2001	TOYOBO CO LTD		ABS
	18	JP 46-5395 i	11-29-1971	IMPERIAL CHEM IND LTD		ABS EXAMPLE, TABLE
	19	GB 1,348,146	03-13-1974	IMPERIAL CHEM IND LTD		
	20	JP 11-49852	02-23-1999	TORAY IND INC		ABS
	21	WO 98/42769	10-01-1998	TORAY IND INC		ABS
Examiner Signature		Pasterczyk		Date Considered	9/2/04	